abcam

Product datasheet

Recombinant Human PARP1 (mutated E988K) protein ab157027

Description

Product name	Recombinant Human PARP1 (mutated E988K) protein
Purity	> 95 % SDS-PAGE.
Expression system	Baculovirus infected Sf21 cells
Accession	P09874
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Amino acids	1 to 1014
Additional sequence information	Human full-length inactive mutant E988K of PARP1 fused to a His-tag.

Specifications

Our Abpromise guarantee covers the use of **ab157027** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Specific activity: 0.5% of wild type PARP1. Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Preservative: 1.7% Imidazole Constituents: 0.16% Tris HCl, 10% Glycerol, 1.75% Sodium chloride, 0.02% Beta

mercaptoethanol, 0.2% Nonylphenol, ethoxylated

General Info

Function	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. Mediates the poly(ADP-ribosyl)ation of APLF and CHFR. Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150.
Sequence similarities	Contains 1 BRCT domain. Contains 1 PARP alpha-helical domain. Contains 1 PARP catalytic domain. Contains 2 PARP-type zinc fingers.
Post-translational modifications	Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR. Poly-ADP-ribosylated by PARP2. Poly-ADP-ribosylation mediates the recruitment of CHD1L to DNA damage sites. S-nitrosylated, leading to inhibit transcription regulation activity.
Cellular localization	Nucleus.

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